Your Name: Noch Cyc

Due: Tuesday, Nov 5, in class

Assigned reading for this lecture:

• Sipser Third Edition Chap 5.1

(Reduction via Computation Histories) To prove that some properties of the language of CFGs such as ALL_{CFG} (Is the language of a given CFG contain all strings) and EQ_{CFG} (do two CFGs have the same language) we need a new reduction technique that uses the computation histories of TMs. Read **Definition 5.5** on Page 221 and the proof of Theorem 5.13 on Page 225.

Questions:

1. Consider the grammar G in the proof. If M does not accept w then what is its language?

2. Why does the PDA alternate between a string that is a TM configuration and a string that is the reverse of TM configuration?

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(Reduction via Computation Histories) To prove that some properties of the language of CFGs such as ALL_{CFG} (Is the language of a given CFG contain all strings) and EQ_{CFG} (do two CFGs have the same language) we need a new reduction technique that uses the computation histories of TMs. Read **Definition 5.5** on Page 221 and the proof of Theorem 5.13 on Page 225.

Questions:

1. Consider the grammar *G* in the proof. If *M* does not accept *w* then what is its language?

If M does not accept w, its grammar G would generate all strings that fail to be an accepting computation history for M on w. In this case, it would end up being all possible strings over its alphabet.

Your Name: Kunal Pal

2. Why does the PDA alternate between a string that is a TM configuration and a string that is the reverse of TM configuration?

The PDA alternates between a string that is a TM configuration and a string that is the reverse of the TTI configuration to alien the symbol orders whenever we push pop from the stack, allowing us to compare adjacent configurations correctly.

Your Name: Juan Mendez

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Questions:

1. Consider the grammar *G* in the proof. If *M* does not accept *w* then what is its language?

If M does not accept w, then L(G) = 5th.

2. Why does the PDA alternate between a string that is a TM configuration and a string that is the reverse of TM configuration?

This allows the PDA to properly compare configurations when pushing /poppling them off the stack.

Your Name: Prairie

Due: Tuesday, Nov 5, in class

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Questions:

1. Consider the grammar *G* in the proof. If *M* does not accept *w* then what is its language?

No accepting complation history exists, so all strings must fed sanchow

2. Why does the PDA alternate between a string that is a TM configuration and a string that is the reverse of TM configuration?

> so that when the strings are popped all the Street, they can be in an order allowing for compession w/ Citi

Your Name: Jarin S

Due: Tuesday, Nov 5, in class

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Questions:

1. Consider the grammar *G* in the proof. If *M* does not accept *w* then what is its language?

All strings that are not accepting sortgentons Computation histories for Mon W.

2. Why does the PDA alternate between a string that is a TM configuration and a string that is the reverse of TM configuration?

The PDA alternates between a string that is a TM Configuration & one that is reversed so that it is in the correct order for comports on between Ci & Citi.

Your Name: 1010 Youalski

Due: Tuesday, Nov 5, in class

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(Reduction via Computation Histories) To prove that some properties of the language of CFGs such as ALL_{CFG} (Is the language of a given CFG contain all strings) and EQ_{CFG} (do two CFGs have the same language) we need a new reduction technique that uses the computation histories of TMs. Read **Definition 5.5** on Page 221 and the proof of Theorem 5.13 on Page 225.

Questions:

1. Consider the grammar G in the proof. If M does not accept w then what is its language?

G generate) all strings if M does not accept w

2. Why does the PDA alternate between a string that is a TM configuration and a string that is the reverse of TM configuration?

So that when we pap C; Off of the stack, we can compare to

Your Name: Ahmed Huggair.

Due: Tuesday, Nov 5, in class

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Questions:

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2. Why does the PDA alternate between a string that is a TM configuration and a string that is the reverse of TM configuration?

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Your Name: Juskyum Singh

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Questions:

1. Consider the grammar G in the proof. If M does not accept w then what is its language?

L(6) + The language generated by 6

2. Why does the PDA alternate between a string that is a TM configuration and a string that is the reverse of TM configuration?

This is so that it is able to push a configuration so that when it is poppie, the order is suitable for companion of the next strings.

Your Name: David Som

Due: Tuesday, Nov 5, in class

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Questions:

1. Consider the grammar *G* in the proof. If *M* does not accept *w* then what is its language?

Go constants all non-valid history of computations. Ground generate the entirety of 5.

2. Why does the PDA alternate between a string that is a TM configuration and a string that is the reverse of TM configuration?

This is because the PDA employs a stark substant. What comes in flush comes out last.

Your Name:

Abel Meson

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Questions:

1. Consider the grammar *G* in the proof. If *M* does not accept *w* then what is its language?

2. Why does the PDA alternate between a string that is a TM configuration and a string that is the reverse of TM configuration?